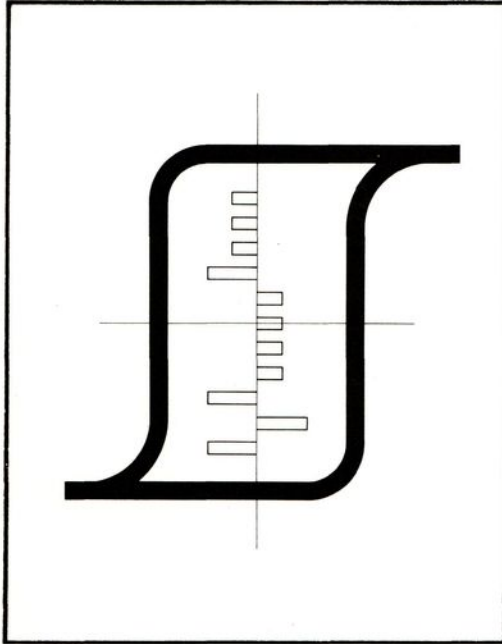




MEMORY PRODUCTS



MEMORY CORE

Type FC-5002

The FC-5002 is a 50 mil ferrite memory core which exhibits fast switching speed at moderate drive currents. It is recommended for use in memories having cycle times of 4 to 6 microseconds. At a nominal drive current of 520 milliamperes, FC5002 has a switching time of approximately 0.70 microseconds.

MECHANICAL SPECIFICATIONS

Outside Diameter	0.050" \pm 0.002"
Inside Diameter	0.030" \pm 0.002"
Thickness	0.015" \pm 0.002"

Fracture strength: The core will not fracture when subjected to a compressive force of 200 grams applied between parallel plane surfaces normal to the core diameter.

TYPICAL OPERATING CONDITIONS (at 25° C)

Drive Currents

$I_r = I_w =$	520 milliamperes
$I_{pw} =$	260 milliamperes
$t_r =$	0.15 microseconds
$t_d =$	2.0 microseconds

Output Signals

$uV_1 =$	120 millivolts
$dV_z =$	13 millivolts
$t_p =$	0.34 microseconds
$t_s =$	0.68 microseconds

TEST SPECIFICATION (at 25° C)

Drive Current Pulse Sequence

All cores are tested using the pulse sequence shown in Figure 1. Cores are delivered 100% tested to a 0.015 AQL as defined by Mil STD-105D, Inspection Level II.

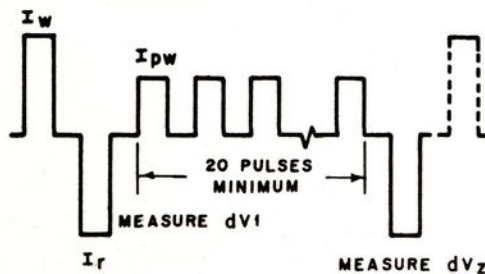


Figure 1.

Test Drive Conditions

$I_r = I_w =$	475 milliamperes \pm 1%
$I_{pw} =$	285 milliamperes \pm 1%
$t_r =$	0.15 microseconds
$t_d =$	2.0 microseconds

Test Output Signals

$uV_1 =$	85 millivolts minimum. The maximum variation in uV_1 within a given lot will be no greater than \pm 12%
$dV_z =$	25 millivolts maximum
$t_p =$	$0.35 \pm .04$ microseconds
$t_s =$	0.80 microseconds maximum

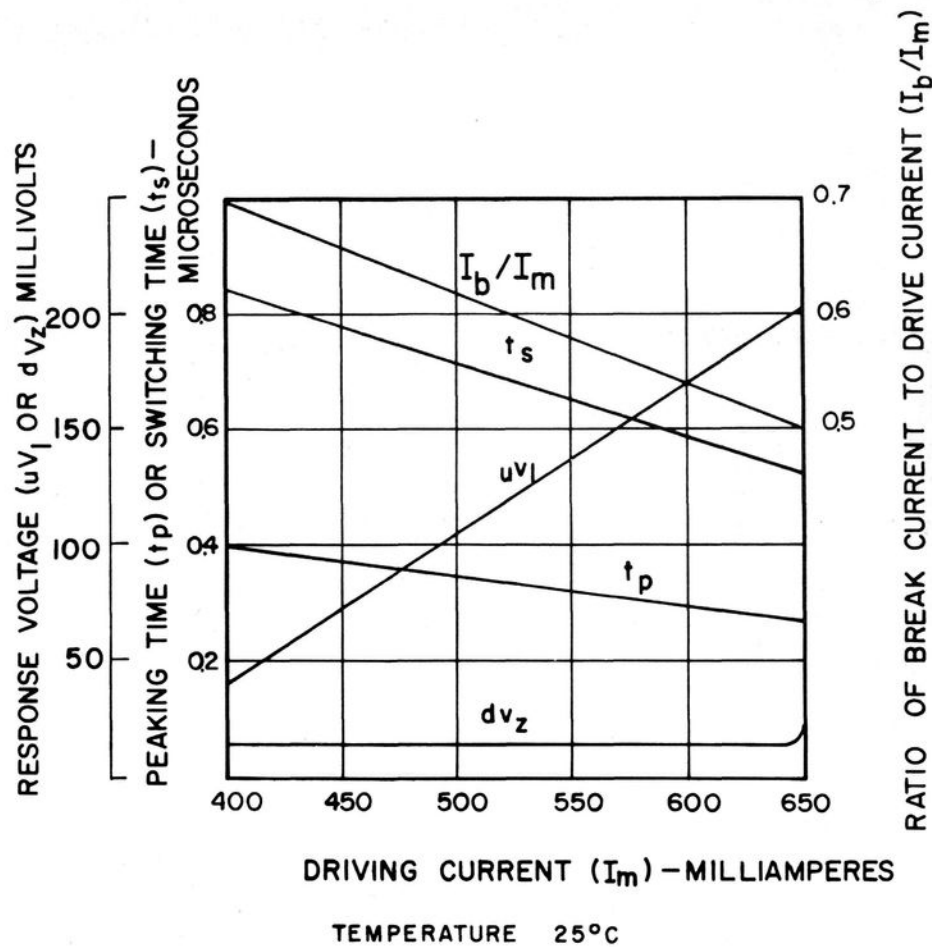


Figure 2. TYPICAL OPERATING CHARACTERISTICS

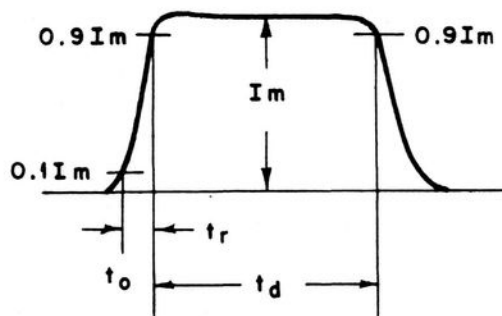


Figure 3. CURRENT PULSE

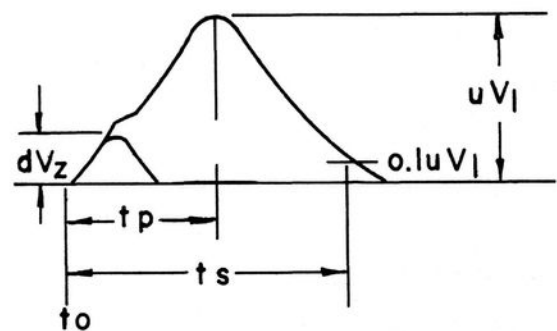


Figure 4. VOLTAGE RESPONSE

B Burroughs Corporation / ELECTRONIC COMPONENTS DIVISION
PLAINFIELD, NEW JERSEY